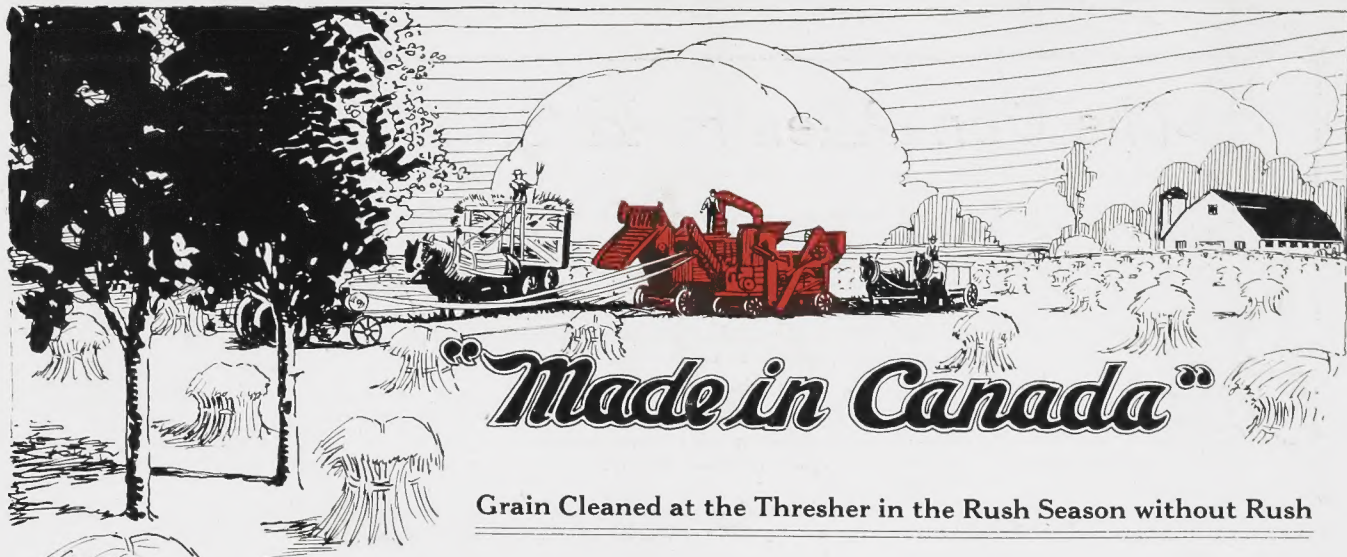




Grain Cleaned at the Thresher in the Rush Season without Rush

# Van Allen — Field Grain Cleaner

MANUFACTURED BY  
CANADIAN FARM IMPLEMENT CO., LTD.

Head Office and Factories  
MEDICINE HAT, ALTA.

Winnipeg Office: 704 McIntyre Block

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Clean Grain for Marketing

Clean Grain for Seed

# *The Van Allen Field Grain Cleaner*

## *Modern Equipment*

This Cleaner is the latest addition to modern mechanical farm equipment. It is a Canadian invention and is manufactured in Canada.

It is now realized that the only logical and economical place for cleaning grain for market is in the field, at the time of threshing and as fast as the thresher can deliver it. The Van Allen Grain Cleaner is constructed for field work; it has all the best features of high-class mill machinery, with added capacity and greater efficiency, especially when dealing with wild oats.

## *Not an Attachment*

It is not an attachment, but is a complete self-contained unit, operated by its own motive power, is mounted on a steel frame truck and is moved by team.

The cleaning operations are by strong suction, gang screens, air blast and finishing screens with special devices for re-cleaning the screenings and rejecting all noxious weed seeds.

This machine is fitted with a compact roller grinder which will take care of all the re-cleaned screenings when machine is running at full capacity.

Wind has no effect on the working of the machine when running in the open.

## *Work Accomplished*

The Van Allen Field Grain Cleaner operating beside the thresher commercially cleaned 200 bushels of wheat per hour. It cleaned wheat containing a 40% dockage, mostly wild oats, and reduced it to a "Straight Grade." It re-cleaned the screenings and took from them all the noxious weed seeds (called black seeds). It ground the screenings for feed and destroyed the germinating power of the wild oats and the wild buckwheat.

During the winter months the Cleaner is used as a finishing machine for cleaning grain for seed.

## *Advantages*

By using a Van Allen Field Grain Cleaner the farmer saves haulage, transportation and elevator charges on his dockage. His screenings remain just where they should be, on the farm ready for feeding. He gains by increased grade of his grain and is insured against "spread" for rejection.

The potential loss from 5% of wild oats in one section of No. 1 Northern Wheat averaging 20 bushels per acre is \$3,000.00. This loss can be entirely prevented by the use of a Van Allen Field Grain Cleaner.

The capacity of the Van Allen Field Grain Cleaner permits the cleaning of 4 or 5 sections of such a crop in 30 threshing days.

## *Operating*

The Cleaner receives direct from the thresher and spouts the cleaned grain into tank or granary. The screenings being delivered ground or unground from a bagger. There is no waste of grain.

All screens are easily removed for cleaning, but do not require frequent attention as dirt and much of the lighter material is handled by suction before screens are reached.

The Cleaner runs smoothly and steadily and requires but little attention.

Spirit levels and quick-acting levelling devices are fitted to the Cleaner to eliminate guesswork and loss of time on the field.

## *Construction*

The Van Allen Field Grain Cleaner is solidly constructed. Working parts are few and simple. All eccentrics and bearings are of ample width and bearing surface. The eccentric shaft bearings are fitted with phosphor bronze bushings, and other important shafts have their bearings babbitt-lined.

All movements are beautifully balanced, and although each of the two shoes are running at 900 reciprocations per minute, the machine will stand perfectly still on a smooth concrete floor without blocking.

CANADIAN FARM IMPLEMENT CO., LTD., MEDICINE HAT, ALTA.



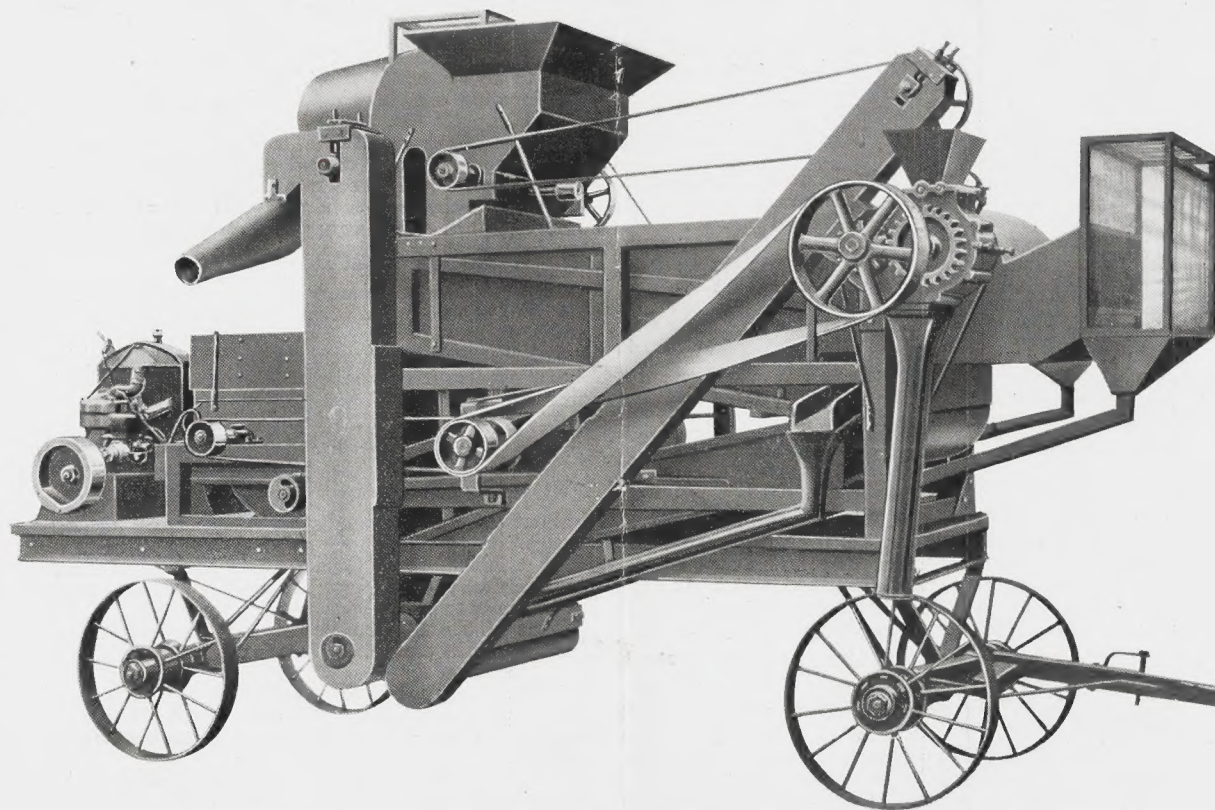
# *The Van Allen Field Grain Cleaner*

## *Engine*

The Engine is a two-cylinder 8-H.P. gasoline marine type, mounted with radiator, marine double friction disc clutch and drive, pulley shaft bearings, on a cast iron bed plate of 200 lbs. weight, the whole mounted on the same frame as the Cleaner. All Engine parts, pistons, connecting rods, valves, valve tappets, timer, carburettor, spark plugs, fan and radiator are interchangeable with Ford parts. Perfect alignment is assured and Engine can be used to drive other farm machinery when not running Cleaner.

## *Grinder*

The Grinder is fitted with patent wedges between the roll bearings. This makes intermittent feeding possible without injury to the grinders. The special arrangement for feeding assures a fine curtain of material reaching the rolls constantly.



## PRICE

Field Cleaner complete with Engine and Grinder.....\$1,000.00

F.O.B. MEDICINE HAT

CANADIAN FARM IMPLEMENT CO., LTD., MEDICINE HAT, ALTA.



## *Extracts from a Report on "Grain Screenings," published under the direction of the Hon. Martin Burrell, Minister of Agriculture, Ottawa, June, 1915*

"In looking for a solution of the screenings problem, it must be remembered that practically all grain is received at the terminal elevators uncleaned; that it is just as it comes from the threshing machine. Relatively few of the interior elevators, except those operated by farmers' co-operative organizations, have cleaning machinery, and even where such facilities are available, the cleaning of grain hauled direct from the machine is impossible during the rush season, owing to the necessity of changing sieves for each different kind and lot of grain received at the same time by several different farmers."

"That threshing machines as at present operated do not clean grain satisfactorily is shown by the fact that nearly every carload received at terminals must be cleaned. If grain could be cleaned at the thresher it would effect an enormous saving to the growers of the West."

"The Saskatchewan Grain Market Commission placed the cost of hauling wheat from the farm to the railway station at 5c per bushel, local and terminal elevator charges at 2½c per bushel, and the average freight rates from Saskatchewan points to Fort William at 12c per bushel, making a total charge at 19c per bushel."

"About 60% of the screenings occurring in the grain produced could be used to advantage on the farm or sold for the feeding of live stock. Even if they were not used for feeding, but were burned on the farm, it would pay the producer to do this rather than to be put to the expense of handling and freighting these."

### *Press Clippings*

The Financial Post says: "Reports from the elevators indicate that the 1922 crop of Western Canada, the greatest in the history of the country, is also the dirtiest. It is conservatively estimated that the farmers will pay the railroads over \$5,000,000.00 for the transportation of weed seeds and other comparatively useless products."

"The dockage on cars is estimated by elevator men at Fort William at four per cent. (4%), which runs into a terrific figure and is that much dead weight on the producers' shoulders."

"Of the 188,510,061 bushels of grain hauled to the twin ports during the fall rush, four per cent. would mean seven and a half million bushels, the equivalent

"The finer weed seeds (black seeds) in screenings should be separated from the rest and burned. They decrease the feeding value of the larger and valuable portion and are a dangerous source of weed contamination."

"Feeding experiments have proven that the black seeds are useless as feed and expensive as adulterants. The admixture in any considerable quantity to other feed makes it unpalatable for all kinds of stock. The addition of molasses to ground screenings containing the black seeds, makes the feed more palatable, but not economical. The most economical way of making screenings palatable is to remove the black seeds."

"Screenings without the black seeds may be fed freely to horses, cattle, sheep and swine. Buckwheat screenings are especially valuable as poultry feed."

In Pamphlet No. 18, published by the Dominion Experimental Farms, Ottawa, in summing up a series of feeding experiments carried out by them with re-cleaned screenings, it is stated:

1st—"Re-cleaned screenings is an excellent feed for swine, except in case of very young or weaned pigs. It may have a value of from \$45.00 to \$60.00 per ton when compared with standard hog foods."

2nd—"Re-cleaned screenings is a high-class feed for dairy cattle, and may have a value from \$35.00 to \$50.00 per ton in comparison with other feeds."

3rd—"Re-cleaned screenings has given very satisfactory results with fattening steers, fed with or without other meals or grains."

4th—"Re-cleaned screenings for fattening lambs has proven fully as valuable as for fattening hogs."

of about 4,400 cars already, at \$300 per car hauling average."

That 20,000 sheep from Alberta and 1,500 steers from Manitoba were shipped to the head of the lakes this last year to be fed on screenings.

That of the first 2,000 cars of grain arriving in Winnipeg, 1922 season, 36% was rejected No. 1 and No. 2 Northern.

D. D. Campbell in the Free Press says that over 1,000 cars per month, at Winnipeg, are grading "rejected," which, if properly cleaned at home, would sell at an advance of 10c per bushel.

The spread for No. 1 Northern rejected this season went as high as 17c per bushel.